



BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone

PRE MEASUREMENTS

Name of work:

The work of Providing and laying of 600 mm dia RCC Sewerage pipeline from Elements Mall SWD to Thanisandra BBMP office (Near Railway Underpass) along Thanisandra Main road coming under Ward no.6- Thanisandra, Byatarayanapura sub division.

Estimated Cost :

Rs. 120.00 Lakhs

Job Code:

006-19-000028 P 3111 State Finance Commission United Grant Works

Head of Account :

P-3111 Special Development Works

Work order No:

BBMP/EE/BTP/WO/ 11 /2020-21 Dated :15-05-2020

Name of Agency:

D.R Infrastructure, Sri Dilip T.S, Door No 115/A, Opp to UAS Layout, 1st Main Road, RMV 2nd stage, Bangalore-560094

Measurements Recorded on :

1 **Cutting road surfaces for pipeline trenches** and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the classifications for: Asphalt Road.(BWSSB SR 17-18 No. 16.2 Code:A105B) Page 56

MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
FROM	TO							
MHEXE	MH1	600	Cum	1	82.40	1.20	0.25	24.72
MH1	MH2	600	Cum	1	31.10	1.20	0.25	9.33
MH2	MH3	600	Cum	1	31.70	1.20	0.25	9.51
MH3	MH4	600	Cum	1	30.20	1.20	0.25	9.06
MH4	MH5	600	Cum	1	29.60	1.20	0.25	8.88
MH5	MH6	600	Cum	1	35.80	1.20	0.25	10.74
MH6	MH7	600	Cum	1	30.00	1.20	0.25	9.00
MH7	MH8	600	Cum	1	27.90	1.20	0.25	8.37
MH8	MH9	600	Cum	1	33.30	1.20	0.25	9.99
MH9	MH10	600	Cum	1	30.00	1.20	0.25	9.00
MH10	MH11	600	Cum	1	36.90	1.20	0.25	11.07
MH11	MH12	600	Cum	1	29.80	1.20	0.25	8.94
MH12	MH13	600	Cum	1	28.40	1.20	0.25	8.52
MH13	MH14	600	Cum	1	30.00	1.20	0.25	9.00
MH14	MH15	600	Cum	1	30.00	1.20	0.25	9.00
MH15	MH16	600	Cum	1	34.00	1.20	0.25	10.20
MH16	MH17	600	Cum	1	25.30	1.20	0.25	7.59
MH17	MH18	600	Cum	1	26.10	1.20	0.25	7.83
MH18	MH19	600	Cum	1	34.90	1.20	0.25	10.47
MH19	MH20	600	Cum	1	33.20	1.20	0.25	9.96
MH20	MH21	600	Cum	1	33.00	1.20	0.25	9.90
MH21	MH22	600	Cum	1	36.80	1.20	0.25	11.04
MH22	MH23	600	Cum	1	33.20	1.20	0.25	9.96
MH23	MH24	600	Cum	1	34.00	1.20	0.25	10.20
MH24	MH25	600	Cum	1	33.50	1.20	0.25	10.05
MH25	MH26	600	Cum	1	25.00	1.20	0.25	7.50
MH26	MH27	600	Cum	1	27.30	1.20	0.25	8.19
MH27	MH28	600	Cum	1	33.00	1.20	0.25	9.90
MH28	MH29	600	Cum	1	42.50	1.20	0.25	12.75
MH29	MH30	600	Cum	1	30.00	1.20	0.25	9.00
MH30	MH31	600	Cum	1	33.20	1.20	0.25	9.96
MH31	MH32	600	Cum	1	30.00	1.20	0.25	9.00
MH32	MH33	600	Cum	1	29.90	1.20	0.25	8.97
MH33	MH34	600	Cum	1	32.00	1.20	0.25	9.60
MH34	MH35	600	Cum	1	35.00	1.20	0.25	10.50
MH35	MH36	600	Cum	1	23.80	1.20	0.25	7.14
MH36	MH37	600	Cum	1	26.40	1.20	0.25	7.92

MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
FROM	TO							
MH37	MH38	600	Cum	1	29.80	1.20	0.25	8.94
MH38	MH39	600	Cum	1	32.00	1.20	0.25	9.60
MH39		600	Cum	1	32.00	1.20	0.25	9.60
Total								390.90
Limited to Tender Qty								381.60

Assistant Engineer

Ward No. 06 (Thanisandra)

Assistant Executive Engineer

Bruhat Bangalore Mahanagara Palike

2 EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN ALL KINDS OF SOIL MIXED WITH BOULDERS of 30 cms size, etc. for: Pipes of all dia. for depth upto 2.0 M in all types of soils Note : If any shoring and strutting, will be paid separately as per the direction of the Engineer Incharge of the Work with all lead and lift, loading and unloading and allother

MHEXE	MH1	600	Cum	1	82.40	1.20	2.00	197.76
MH1	MH2	600	Cum	1	31.10	1.20	2.00	74.64
MH2	MH3	600	Cum	1	31.70	1.20	2.00	76.08
MH3	MH4	600	Cum	1	30.20	1.20	2.00	72.48
MH4	MH5	600	Cum	1	29.60	1.20	2.00	71.04
MH5	MH6	600	Cum	1	35.80	1.20	2.00	85.92
MH6	MH7	600	Cum	1	30.00	1.20	2.00	72.00
MH7	MH8	600	Cum	1	27.90	1.20	2.00	66.96
MH8	MH9	600	Cum	1	33.30	1.20	2.00	79.92
MH9	MH10	600	Cum	1	30.00	1.20	2.00	72.00
MH10	MH11	600	Cum	1	36.90	1.20	2.00	88.56
MH11	MH12	600	Cum	1	29.80	1.20	2.00	71.52
MH12	MH13	600	Cum	1	28.40	1.20	2.00	68.16
MH13	MH14	600	Cum	1	30.00	1.20	2.00	72.00
MH14	MH15	600	Cum	1	30.00	1.20	2.00	72.00
MH15	MH16	600	Cum	1	34.00	1.20	2.00	81.60
MH16	MH17	600	Cum	1	25.30	1.20	2.00	60.72
MH17	MH18	600	Cum	1	26.10	1.20	2.00	62.64
MH18	MH19	600	Cum	1	34.90	1.20	2.00	83.76
MH19	MH20	600	Cum	1	33.20	1.20	2.00	79.68
MH20	MH21	600	Cum	1	33.00	1.20	2.00	79.20
MH21	MH22	600	Cum	1	36.80	1.20	2.00	88.32
MH22	MH23	600	Cum	1	33.20	1.20	2.00	79.68
MH23	MH24	600	Cum	1	34.00	1.20	2.00	81.60
MH24	MH25	600	Cum	1	33.50	1.20	2.00	80.40
MH25	MH26	600	Cum	1	25.00	1.20	2.00	60.00
MH26	MH27	600	Cum	1	27.30	1.20	2.00	65.52
MH27	MH28	600	Cum	1	33.00	1.20	2.00	79.20
MH28	MH29	600	Cum	1	42.50	1.20	2.00	102.00
MH29	MH30	600	Cum	1	30.00	1.20	2.00	72.00
MH30	MH31	600	Cum	1	33.20	1.20	2.00	79.68
MH31	MH32	600	Cum	1	30.00	1.20	2.00	72.00
MH32	MH33	600	Cum	1	29.90	1.20	2.00	71.76
MH33	MH34	600	Cum	1	32.00	1.20	2.00	76.80
MH34	MH35	600	Cum	1	35.00	1.20	2.00	84.00
MH35	MH36	600	Cum	1	23.80	1.20	2.00	57.12
MH36	MH37	600	Cum	1	26.40	1.20	2.00	63.36
MH37	MH38	600	Cum	1	29.80	1.20	2.00	71.52
MH38	MH39	600	Cum	1	32.00	1.20	2.00	76.80
MH39		600	Cum	1	32.00	1.20	2.00	76.80
								3127.20
Deduct Asphalt Cutting								381.60
TOTAL								2745.60
Limited to Tender Qty								2671.20

MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
FROM	TO							
Pipes of all dia. for depth 2.0 to 4.0 M in all types of soils Note : If any shoring and strutting, will be paid separately as per the direction of the Engineer Incharge of the Work with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
MHEXE	MH1	600	Cum	1	82.40	1.20	1.10	108.77
MH1	MH2	600	Cum	1	31.10	1.20	1.20	44.78
MH2	MH3	600	Cum	1	31.70	1.20	1.00	38.04
MH3	MH4	600	Cum	1	30.20	1.20	1.20	43.49
MH4	MH5	600	Cum	1	29.60	1.20	1.00	35.52
MH5	MH6	600	Cum	1	35.80	1.20	1.00	42.96
MH6	MH7	600	Cum	1	30.00	1.20	1.25	45.00
MH7	MH8	600	Cum	1	27.90	1.20	1.20	40.18
MH8	MH9	600	Cum	1	33.30	1.20	1.40	55.94
MH9	MH10	600	Cum	1	30.00	1.20	1.30	46.80
MH10	MH11	600	Cum	1	36.90	1.20	0.40	17.71
MH11	MH12	600	Cum	1	29.80	1.20	0.36	12.87
MH12	MH13	600	Cum	1	28.40	1.20	0.70	23.86
MH13	MH14	600	Cum	1	30.00	1.10	0.80	26.40
MH14	MH15	600	Cum	1	30.00	1.20	0.95	34.20
MH15	MH16	600	Cum	1	34.00	1.20	0.70	28.56
MH16	MH17	600	Cum	1	25.30	1.20	0.85	25.81
MH17	MH18	600	Cum	1	26.10	1.20	0.50	15.66
MH18	MH19	600	Cum	1	34.90	1.20	0.50	20.94
MH19	MH20	600	Cum	1	33.20	1.20	0.40	15.94
MH20	MH21	600	Cum	1	33.00	1.20	0.35	13.86
MH21	MH22	600	Cum	1	36.80	1.20	0.80	35.33
MH22	MH23	600	Cum	1	33.20	1.20	0.60	23.90
MH23	MH24	600	Cum	1	34.00	1.20	0.40	16.32
MH24	MH25	600	Cum	1	33.50	1.20	0.80	32.16
TOTAL								845.00
Limited to Tender Qty								839.70

Assistant Engineer

Ward No. 06 (Thanisandra)

Assistant Executive Engineer

Bruhat Bangalore Mahanagara Palike

4

EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN DISINTEGRATED ROCK, **SOFT ROCK**, SOFT SHALE AND MEDIUM HARD ROCK COMPRISING OF LIME STONE, SAND STONE, HARD SHALE, SCHIEST, FISSURED ROCK without resorting to blast etc. for Pipes of all dia. for depth upto 2.0 M Note : If any shoring and strutting, will be paid separately as per the direction of the Engineer Incharge of the Work with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work Considering 20% of Earth work Quantity

MHEXE	MH1	600	Cum	1	82.40	1.20	0.40	39.55
MH1	MH2	600	Cum	1	31.10	1.20	0.35	13.06
MH2	MH3	600	Cum	1	31.70	1.20	0.30	11.41
MH3	MH4	600	Cum	1	30.20	1.20	0.45	16.31
MH4	MH5	600	Cum	1	29.60	1.20	0.25	8.88
MH5	MH6	600	Cum	1	35.80	1.20	0.30	12.89
MH6	MH7	600	Cum	1	30.00	1.20	0.25	9.00
MH7	MH8	600	Cum	1	27.90	1.20	0.30	10.04
MH8	MH9	600	Cum	1	33.30	1.20	0.15	5.99
MH9	MH10	600	Cum	1	30.00	1.20	0.20	7.20
MH10	MH11	600	Cum	1	36.90	1.20	0.35	15.50
MH11	MH12	600	Cum	1	29.80	1.20	0.20	7.15
MH12	MH13	600	Cum	1	28.40	1.20	0.15	5.11
MH13	MH14	600	Cum	1	30.00	1.20	0.25	9.00
MH14	MH15	600	Cum	1	30.00	1.20	0.15	5.40

MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
FROM	TO							
MH15	MH16	600	Cum	1	34.00	1.20	0.20	8.16
MH16	MH17	600	Cum	1	25.30	1.20	0.35	10.63
MH17	MH18	600	Cum	1	26.10	1.20	0.30	9.40
MH18	MH19	600	Cum	1	34.90	1.20	0.40	16.75
MH19	MH20	600	Cum	1	33.20	1.20	0.25	9.96
MH20	MH21	600	Cum	1	33.00	1.20	0.30	11.88
MH21	MH22	600	Cum	1	36.80	1.20	0.40	17.66
MH22	MH23	600	Cum	1	33.20	1.20	0.45	17.93
MH23	MH24	600	Cum	1	34.00	1.20	0.40	16.32
MH24	MH25	600	Cum	1	33.50	1.20	0.50	20.10
MH25	MH26	600	Cum	1	25.00	1.20	0.40	12.00
MH26	MH27	600	Cum	1	27.30	1.20	0.40	13.10
MH27	MH28	600	Cum	1	33.00	1.20	0.50	19.80
MH28	MH29	600	Cum	1	42.50	1.20	0.40	20.40
MH29	MH30	600	Cum	1	30.00	1.20	0.40	14.40
MH30	MH31	600	Cum	1	33.20	1.20	0.30	11.95
MH31	MH32	600	Cum	1	30.00	1.20	0.45	16.20
MH32	MH33	600	Cum	1	29.90	1.20	0.40	14.35
MH33	MH34	600	Cum	1	32.00	1.20	0.40	15.36
MH34	MH35	600	Cum	1	35.00	1.20	0.40	16.80
MH35	MH36	600	Cum	1	23.80	1.20	0.40	11.42
MH36	MH37	600	Cum	1	26.40	1.20	0.45	14.26
MH37	MH38	600	Cum	1	29.80	1.20	0.60	21.46
MH38	MH39	600	Cum	1	32.00	1.20	0.40	15.36
MH39		600	Cum	1	32.00	1.20	0.40	15.36
TOTAL								547.51
Limited to Tender Qty								534.24

Assistant Engineer

Ward No. 06(Thanisandra)

Assistant Executive Engineer

Bruhat Bangalore Mahanagara Palike

- 5 EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN DISINTEGRATED ROCK, SOFT ROCK, SOFT SHALE AND MEDIUM HARD ROCK COMPRISING OF LIME STONE, SAND STONE, HARD SHALE, SCHIEST, **FISSURED ROCK** without resorting to blast etc. for as per the direction of the Engineer Incharge of the Work with all lead and lift, loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work

MHEXE	MH1	600	Cum	1	82.40	1.20	1.10	108.77
MH1	MH2	600	Cum	1	31.10	1.20	1.20	44.78
MH2	MH3	600	Cum	1	31.70	1.20	1.00	38.04
MH3	MH4	600	Cum	1	30.20	1.20	1.20	43.49
MH4	MH5	600	Cum	1	29.60	1.20	1.00	35.52
MH5	MH6	600	Cum	1	35.80	1.20	1.00	42.96
MH6	MH7	600	Cum	1	30.00	1.20	1.25	45.00
MH7	MH8	600	Cum	1	27.90	1.20	1.20	40.18
MH8	MH9	600	Cum	1	33.30	1.20	1.40	55.94
MH9	MH10	600	Cum	1	30.00	1.20	1.30	46.80
MH10	MH11	600	Cum	1	36.90	1.20	0.40	17.71
MH11	MH12	600	Cum	1	29.80	1.20	0.36	12.87
MH12	MH13	600	Cum	1	28.40	1.20	0.70	23.86
MH13	MH14	600	Cum	1	30.00	1.10	0.80	26.40
MH14	MH15	600	Cum	1	30.00	1.20	0.95	34.20
MH15	MH16	600	Cum	1	34.00	1.20	0.70	28.56
MH16	MH17	600	Cum	1	25.30	1.20	0.85	25.81
MH17	MH18	600	Cum	1	26.10	1.20	0.50	15.66
MH18	MH19	600	Cum	1	34.90	1.20	0.50	20.94
MH19	MH20	600	Cum	1	33.20	1.20	0.40	15.94

MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
FROM	TO							
MH20	MH21	600	Cum	1	33.00	1.20	0.35	13.86
MH21	MH22	600	Cum	1	36.80	1.20	0.80	35.33
Limited to Tender Qty								129.98

Assistant Engineer

Ward No. 06(Thanisandra)

Assistant Executive Engineer

Bruhat Bangalore Mahanagara Palike

EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN **HARD LATERITE ROCK** CONTAINING IRON ORE ABOVE 20% BY CHISELING AND TRIMMING TO PROPER SLOPE etc. for: Pipes of all dia. Pipes of all dia. for depth 2.0 to 4.0 mtr as per the direction of the Engineer Incharge of the Work with all lead and lift, loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work Considering 5% of Earth work Quantity

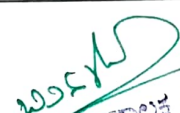
MHEXE	MH1	600	Cum	1	82.40	1.20	1.10	108.77
MH1	MH2	600	Cum	1	31.10	1.20	1.20	44.78
MH2	MH3	600	Cum	1	31.70	1.20	1.00	38.04
MH3	MH4	600	Cum	1	30.20	1.20	1.20	43.49
MH4	MH5	600	Cum	1	29.60	1.20	1.00	35.52
MH5	MH6	600	Cum	1	35.80	1.20	1.00	42.96
MH6	MH7	600	Cum	1	30.00	1.20	1.25	45.00
MH7	MH8	600	Cum	1	27.90	1.20	1.20	40.18
MH8	MH9	600	Cum	1	33.30	1.20	1.40	55.94
MH9	MH10	600	Cum	1	30.00	1.20	1.30	46.80
MH10	MH11	600	Cum	1	36.90	1.20	0.40	17.71
MH11	MH12	600	Cum	1	29.80	1.20	0.36	12.87
MH12	MH13	600	Cum	1	28.40	1.20	0.70	23.86
MH13	MH14	600	Cum	1	30.00	1.10	0.80	26.40
MH14	MH15	600	Cum	1	30.00	1.20	0.95	34.20
MH15	MH16	600	Cum	1	34.00	1.20	0.70	28.56
MH16	MH17	600	Cum	1	25.30	1.20	0.85	25.81
MH17	MH18	600	Cum	1	26.10	1.20	0.50	15.66
MH18	MH19	600	Cum	1	34.90	1.20	0.50	20.94
MH19	MH20	600	Cum	1	33.20	1.20	0.40	15.94
MH20	MH21	600	Cum	1	33.00	1.20	0.35	13.86
MH21	MH22	600	Cum	1	36.80	1.20	0.80	35.33
MH22	MH23	600	Cum	1	33.20	1.20	0.60	23.90
MH23	MH24	600	Cum	1	34.00	1.20	0.40	16.32
MH24	MH25	600	Cum	1	33.50	1.20	0.80	32.16
TOTAL								42.25
Limited to Tender Qty								41.99

Assistant Engineer

Ward No. 06(Thanisandra)

Assistant Executive Engineer

Bruhat Bangalore Mahanagara Palike

MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
FROM	TO							
Providing and installing sheet piling for both sides of the trenches for following depths with mild steel sheets of not less than 6.5 mm thick, stronger knife edge, recessed spreader sockets, 3 inch single or double wall shields, to be designed by the contractor to withstand all types of soils, maximum depth as per the approved design drawings, including labour charges for installing and removing the sheet piling at various reaches of sewer line constructions, including loading, unloading, transporting to the suitable location etc. complete with all lead and lifts. (Measurement shall be taken for one side only even though it is provided for both sides) For depth 3.0 m to 6m and as per the direction of the Engineer Incharge of the Work with all lead and lift, loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
MH1	MH2	600	Sqm	1	31.10	3.00		93.30
MH2	MH3	600	Sqm	1	31.70	3.00		95.10
MH3	MH4	600	Sqm	1	30.20	3.00		90.60
MH4	MH5	600	Sqm	1	29.60	3.00		88.80
MH5	MH6	600	Sqm	1	35.80	3.00		107.40
MH6	MH7	600	Sqm	1	30.00	3.00		90.00
MH7	MH8	600	Sqm	1	27.90	3.00		83.70
MH8	MH9	600	Sqm	1	33.30	3.00		99.90
MH9	MH10	600	Sqm	1	30.00	3.00		90.00
TOTAL								838.80
Limited to Tender Qty								750.00
 Assistant Engineer Ward No. 06(Thanisandra)  Assistant Executive Engineer Bruhat Bangalore Mahanagara Palike								
10	Supplying S&S RCC SPUN / VIBRATED CAST PIPES (REINFORCED) pipes NP-3 Class conforming to IS:458-1988 with latest amendments using ordinary portland cement, for sanitary works and conveying to work site, rolling and lowering into trenches, laying true to line and level including loading and unloading at both destinations and jointing of pipes and specials including cost of specials, perfect linking of joints with jack to correct position including cost of jointing materials, i.e, rubber rings conforming to IS: 5382 for S&S RCC pipes, with all leads and lifts as directed and giving necessary hydraulic test as per ISS to the required pressure and commissioning etc. complete. (Contractor will make his own arrangements for procuring water for testing). Before the execution of the work, the contractor shall carry out the survey and will be paid extra for the same as per seperate item.:RCC NP3 Class pipe of 600 mm dia.(BWSSB SR 17-18 No: 5.7 Code:T050G) Page 159							
MHEXE	MH1	600	m	1	82.40	1.20		81.20
MH1	MH2	600	m	1	31.10	1.20		29.90
MH2	MH3	600	m	1	31.70	1.20		30.50
MH3	MH4	600	m	1	30.20	1.20		29.00
MH4	MH5	600	m	1	29.60	1.20		28.40
MH5	MH6	600	m	1	35.80	1.20		34.60
MH6	MH7	600	m	1	30.00	1.20		28.80
MH7	MH8	600	m	1	27.90	1.20		26.70
MH8	MH9	600	m	1	33.30	1.20		32.10
MH9	MH10	600	m	1	30.00	1.20		28.80
MH10	MH11	600	m	1	36.90	1.20		35.70
MH11	MH12	600	m	1	29.80	1.20		28.60
MH12	MH13	600	m	1	28.40	1.20		27.20
MH13	MH14	600	m	1	30.00	1.20		28.80
MH14	MH15	600	m	1	30.00	1.20		28.80
MH15	MH16	600	m	1	34.00	1.20		32.80
MH16	MH17	600	m	1	25.30	1.20		24.10
MH17	MH18	600	m	1	26.10	1.20		24.90
MH18	MH19	600	m	1	34.90	1.20		33.70
MH19	MH20	600	m	1	33.20	1.20		32.00
MH20	MH21	600	m	1	33.00	1.20		31.80
MH21	MH22	600	m	1	36.80	1.20		35.60
MH22	MH23	600	m	1	33.20	1.20		32.00
MH23	MH24	600	m	1	34.00	1.20		32.80

MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
FROM	TO							
MH24	MH25	600	m	1	33.60	1.20		32.30
MH25	MH26	600	m	1	26.00	1.20		24.80
MH26	MH27	600	m	1	27.30	1.20		26.10
MH27	MH28	600	m	1	33.00	1.20		31.80
MH28	MH29	600	m	1	42.50	1.20		41.30
MH29	MH30	600	m	1	30.00	1.20		28.80
MH30	MH31	600	m	1	33.20	1.20		32.00
MH31	MH32	600	m	1	30.00	1.20		28.80
MH32	MH33	600	m	1	29.90	1.20		28.70
MH33	MH34	600	m	1	32.00	1.20		30.80
MH35	MH36	600	m	1	23.80	1.20		22.60
MH36	MH37	600	m	1	26.40	1.20		25.20
MH37	MH38	600	m	1	29.80	1.20		28.60
MH38	MH39	600	m	1	32.00	1.20		30.80
MH 39		0	m	1	33.00	0.00		33.00
TOTAL								1223.40

Ward No. 06(Thanisandra)

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

18

Providing, erecting and removing casurina pole three tier BARRICADE using poles of 7.5 to 10 cms dia and 1.5M height above ground fixed vertically at intervals of 2.0 to 2.5 M centre to centre and horizontally at 0.5M above ground level, including fixing poles in ground for a maximum depth of 0.3M and tied with coir rope firmly including cost and conveyances of all materials, labour, lead and lifts charges etc. complete (BWSSB SR 17-18 No. 128 Code:T500A) Page 183

MHEXE	MH1	600	Rmt	1	82.40		82.40
MH1	MH2	600	Rmt	1	31.10		31.10
MH2	MH3	600	Rmt	1	31.70		31.70
MH3	MH4	600	Rmt	1	30.20		30.20
MH4	MH5	600	Rmt	1	29.60		29.60
MH5	MH6	600	Rmt	1	35.80		35.80
MH6	MH7	600	Rmt	1	30.00		30.00
MH7	MH8	600	Rmt	1	27.90		27.90
MH8	MH9	600	Rmt	1	33.30		33.30
MH9	MH10	600	Rmt	1	30.00		30.00
MH10	MH11	600	Rmt	1	36.90		36.90
MH11	MH12	600	Rmt	1	29.80		29.80
MH12	MH13	600	Rmt	1	28.40		28.40
MH13	MH14	600	Rmt	1	30.00		30.00
MH14	MH15	600	Rmt	1	30.00		30.00
MH15	MH16	600	Rmt	1	34.00		34.00
MH16	MH17	600	Rmt	1	25.30		25.30
MH17	MH18	600	Rmt	1	26.10		26.10
MH18	MH19	600	Rmt	1	34.90		34.90
MH19	MH20	600	Rmt	1	33.20		33.20
MH20	MH21	600	Rmt	1	33.00		33.00
MH21	MH22	600	Rmt	1	36.80		36.80
MH22	MH23	600	Rmt	1	33.20		33.20
MH23	MH24	600	Rmt	1	34.00		34.00
MH24	MH25	600	Rmt	1	33.50		33.50
MH25	MH26	600	Rmt	1	25.00		25.00
MH26	MH27	600	Rmt	1	27.30		27.30
MH27	MH28	600	Rmt	1	33.00		33.00
MH28	MH29	600	Rmt	1	42.50		42.50
MH29	MH30	600	Rmt	1	30.00		30.00
MH30	MH31	600	Rmt	1	33.20		33.20
MH31	MH32	600	Rmt	1	30.00		30.00
MH32	MH33	600	Rmt	1	29.90		29.90

	MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
	FROM	TO							
21	Diversion of water course by providing Coffor dams or bunds or island as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete as per the direction of the Engineer Incharge of the Work with all lead and lift , loading and unloading and allother incidental charges etc , complete as per specification and direction of the engineer-in-charge of the work 37.41.2 -do- beyond 1.50 mts depth upto & including 3m depth.								
	MH1	MH2	600	Cum	1	31.10	2.00	3.00	186.60
	MH2	MH3	600	Cum	1	31.70	2.00	3.00	190.20
	MH3	MH4	600	Cum	1	30.20	2.00	3.00	181.20
	TOTAL								558.00
	Limited to Tender Qty								450.00


 Assistant Engineer
 Ward No. 06 (Thanisandra)


 Assistant Executive Engineer
 Bruhat Bangalore Mahanagara Palike

22	Dismantling size stone masonry in lime mortar/cement mortar and stacking the stone and removing and disposing the debris with all lead & lifts etc complete including cost of all equipments and labour etc., complete as per specifications and as directed by the Engineer in charge as per the direction of the Engineer Incharge of the Work with all lead and lift, loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work. For Culver / Drains Crossings								
					1	5	1.50	2.00	15.00
					1	5	1.50	2.00	15.00
					1	5	1.50	2.00	15.00
					1	5	1.50	2.00	15.00
					1	5	1.50	2.00	15.00
				Cum	1	5	1.50	2.00	15.00
	TOTAL								90.00


 Assistant Engineer
 Ward No. 06 (Thanisandra)


 Assistant Executive Engineer
 Bruhat Bangalore Mahanagara Palike

23	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6 Stone hammer dressed in courses not less than 20 cms high, bond stones at two meters apart in each course including cost of materials, labour, curing with all lead and lifts, etc., complete as per specification and as directed by the Engineer in charge. -For Drain walls. Specification No. KBS 5.1.13 with using available stones as per the direction of the Engineer Incharge of the Work with all lead and lift, loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
					1	5.00	1.50	2.00	15.00
					1	5.00	1.50	2.00	15.00
					1	5.00	1.50	2.00	15.00
					1	5.00	1.50	2.00	15.00
					1	5.00	1.50	2.00	15.00
				Cum	1	5.00	1.50	2.00	15.00
	TOTAL								90.00


 Assistant Engineer
 Ward No. 06 (Thanisandra)


 Assistant Executive Engineer
 Bruhat Bangalore Mahanagara Palike



ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

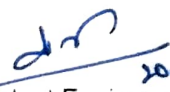
24

MANHOLE **DIA. OF PIPE** **UNIT** **NO** **L** **B** **D** **QTY**

FROM **TO**

KSRRB M400-6 1 **Construction of granular sub-base** by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method For Grading-II Material as per the direction of the Engineer Incharge of the Work with all lead and lift , loading and unloading and allother incidental charges etc , complete as per specification and direction of the engineer-in-charge of the work

MHEXE	MH1	600	Cum	1	82.40	1.20	0.20	19.78
MH1	MH2	600	Cum	1	31.10	1.20	0.20	7.46
MH2	MH3	600	Cum	1	31.70	1.20	0.20	7.61
MH3	MH4	600	Cum	1	30.20	1.20	0.20	7.25
MH4	MH5	600	Cum	1	29.60	1.20	0.20	7.10
MH5	MH6	600	Cum	1	35.80	1.20	0.20	8.59
MH6	MH7	600	Cum	1	30.00	1.20	0.20	7.20
MH7	MH8	600	Cum	1	27.90	1.20	0.20	6.70
MH8	MH9	600	Cum	1	33.30	1.20	0.20	7.99
MH9	MH10	600	Cum	1	30.00	1.20	0.20	7.20
MH10	MH11	600	Cum	1	36.90	1.20	0.20	8.86
MH11	MH12	600	Cum	1	29.80	1.20	0.20	7.15
MH12	MH13	600	Cum	1	28.40	1.20	0.20	6.82
MH13	MH14	600	Cum	1	30.00	1.20	0.20	7.20
MH14	MH15	600	Cum	1	30.00	1.20	0.20	7.20
MH15	MH16	600	Cum	1	34.00	1.20	0.20	8.16
MH16	MH17	600	Cum	1	25.30	1.20	0.20	6.07
MH17	MH18	600	Cum	1	26.40	1.20	0.20	6.26
MH18	MH19	600	Cum	1	34.90	1.20	0.20	8.38
MH19	MH20	600	Cum	1	33.20	1.20	0.20	7.97
MH20	MH21	600	Cum	1	33.00	1.20	0.20	7.92
MH21	MH22	600	Cum	1	36.80	1.20	0.20	8.83
MH22	MH23	600	Cum	1	33.20	1.20	0.20	7.97
MH23	MH24	600	Cum	1	34.00	1.20	0.20	8.16
MH24	MH25	600	Cum	1	33.50	1.20	0.20	8.04
MH25	MH26	600	Cum	1	25.00	1.20	0.20	6.00
MH26	MH27	600	Cum	1	27.30	1.20	0.20	6.55
MH27	MH28	600	Cum	1	33.00	1.20	0.20	7.92
MH28	MH29	600	Cum	1	42.50	1.20	0.20	10.20
MH29	MH30	600	Cum	1	30.00	1.20	0.20	7.20
MH30	MH31	600	Cum	1	33.20	1.20	0.20	7.97
MH31	MH32	600	Cum	1	30.00	1.20	0.20	7.20
MH32	MH33	600	Cum	1	29.90	1.20	0.20	7.18
MH33	MH34	600	Cum	1	32.00	1.20	0.20	7.68
MH34	MH35	600	Cum	1	35.00	1.20	0.20	8.40
MH35	MH36	600	Cum	1	23.80	1.20	0.20	5.71
MH36	MH37	600	Cum	1	26.40	1.20	0.20	6.34
MH37	MH38	600	Cum	1	29.80	1.20	0.20	7.15
MH38	MH39	600	Cum	1	32.00	1.20	0.20	7.68
MH39		600	Cum	1	32.00	1.20	0.20	7.68
TOTAL								312.72
Qty Limited to								305.28


20.07.2020
Assistant Engineer
Ward No 06(Thanisandra)


Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike


ಬ್ರಹ್ಮಬಾಂಗಲೂರ ಮಹಾನಗರ ಪಾಲಿಕೆ
ಪ್ರಾ.ಪಂ.ಪ., ಬೆಂಗಳೂರು-24

MANHOLE		DIA. OF PIPE	UNIT	NO	L	B	D	QTY
FROM	TO							
SRRB M400-17 : Providing, laying, spreading and compacting 150mm graded stone aggregate to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with pavers in sub base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density Grading of material clause: 406 of MORTH specifications. as per the direction of the Engineer Incharge of the Work with all lead and lift, loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work								
MHEXE	MH1	600	Cum	1	82.40	1.20	0.20	19.78
MH1	MH2	600	Cum	1	31.10	1.20	0.20	7.46
MH2	MH3	600	Cum	1	31.70	1.20	0.20	7.61
MH3	MH4	600	Cum	1	30.20	1.20	0.20	7.25
MH4	MH5	600	Cum	1	29.60	1.20	0.20	7.10
MH5	MH6	600	Cum	1	35.80	1.20	0.20	8.59
MH6	MH7	600	Cum	1	30.00	1.20	0.20	7.20
MH7	MH8	600	Cum	1	27.90	1.20	0.20	6.70
MH8	MH9	600	Cum	1	33.30	1.20	0.20	7.99
MH9	MH10	600	Cum	1	30.00	1.20	0.20	7.20
MH10	MH11	600	Cum	1	36.90	1.20	0.20	8.86
MH11	MH12	600	Cum	1	29.80	1.20	0.20	7.15
MH12	MH13	600	Cum	1	28.40	1.20	0.20	6.82
MH13	MH14	600	Cum	1	30.00	1.20	0.20	7.20
MH14	MH15	600	Cum	1	30.00	1.20	0.20	7.20
MH15	MH16	600	Cum	1	34.00	1.20	0.20	8.16
MH16	MH17	600	Cum	1	25.30	1.20	0.20	6.07
MH17	MH18	600	Cum	1	26.10	1.20	0.20	6.26
MH18	MH19	600	Cum	1	34.90	1.20	0.20	8.38
MH19	MH20	600	Cum	1	33.20	1.20	0.20	7.97
MH20	MH21	600	Cum	1	33.00	1.20	0.20	7.92
MH21	MH22	600	Cum	1	36.80	1.20	0.20	8.83
MH22	MH23	600	Cum	1	33.20	1.20	0.20	7.97
MH23	MH24	600	Cum	1	34.00	1.20	0.20	8.16
MH24	MH25	600	Cum	1	33.50	1.20	0.20	8.04
MH25	MH26	600	Cum	1	25.00	1.20	0.20	6.00
MH26	MH27	600	Cum	1	27.30	1.20	0.20	6.55
MH27	MH28	600	Cum	1	33.00	1.20	0.20	7.92
MH28	MH29	600	Cum	1	42.50	1.20	0.20	10.20
MH29	MH30	600	Cum	1	30.00	1.20	0.20	7.20
MH30	MH31	600	Cum	1	33.20	1.20	0.20	7.97
MH31	MH32	600	Cum	1	30.00	1.20	0.20	7.20
MH32	MH33	600	Cum	1	29.90	1.20	0.20	7.18
MH33	MH34	600	Cum	1	32.00	1.20	0.20	7.68
MH34	MH35	600	Cum	1	35.00	1.20	0.20	8.40
MH35	MH36	600	Cum	1	23.80	1.20	0.20	5.71
MH36	MH37	600	Cum	1	26.40	1.20	0.20	6.34
MH37	MH38	600	Cum	1	29.80	1.20	0.20	7.15
MH38	MH39	600	Cum	1	32.00	1.20	0.20	7.68
MH39		600	Cum	1	32.00	1.20	0.20	7.68
TOTAL								312.72
Qty Limited to								305.28





Assistant Engineer
 Ward No 06 (Thanisandra)

Assistant Executive Engineer
 Bruhat Bangalore Mahanagara Palike

22.07.2022
 22/7/2022